

# VPM-402

Vest Power Manager



## Lightweight, rugged, integrated data and power management

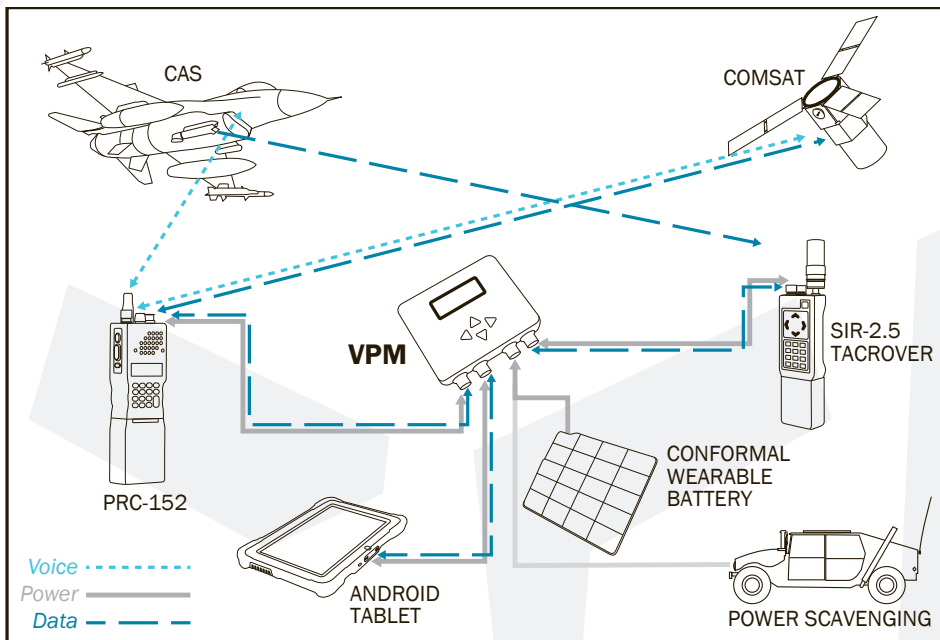
The VPM-402 is the intelligent, wearable, combined data and power management solution. Its smart USB hub interconnects all data enabled devices, while also enabling constant operability of tablets, radios, GPS receivers, and other electronic devices from a single battery.

The VPM manages data pass through, prioritizes battery usage, reports power levels, and automatically alerts the operator to any issues. And because it integrates data and power in a single solution, it eliminates the need for separate power and data cables.

The VPM-402 provides full-size data and power management in a vest-sized package. The VPM, its accessories and specialist kits can be purchased from Protonex and authorized Value-Added Distributors and System Integrators.

## Reliable, Easy-To-Use, and Field-Proven

- ▲ Uses standard USB protocols to pass data between connected devices – regardless of manufacturer
- ▲ Run multiple devices from a single shared battery – reducing weight, complexity and cables
- ▲ Plugs into any available power source - vehicle/aircraft, AC, solar, etc. – to charge most military and commercial rechargeable batteries
- ▲ In use with USMC, USSOCOM, and international allies



# Technical Specifications

## DATA INTERFACE

Upstream Ports	1x USB 2.0 w/integrated USB 2.0 Hub
Downstream Ports	3x USB 2.0 w/integrated USB 2.0 Hub

## POWER INPUT/OUTPUT

Number of Connectors	Four Bidirectional
Protection	Over-Voltage, Over-current, Short-circuit, Reverse Polarity, Surge, EMI
Protection Reset	Automatic
Simultaneous Battery Charge	Up to two batteries
Sequential Battery Charge	Up to three batteries
Military Batteries Supported	Conformal Wearable Battery (CWB), BB-2590, BB-2557, BA-5390, 28V Vehicle
Commercial Batteries Supported	AA, AAA, RCR-123, 12V Vehicle

## ENERGY HARVESTING

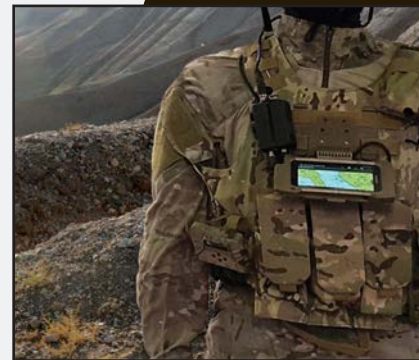
Harvest Range	4-34 VDC
Solar Algorithm	Peak Power Point Tracking (PPPT), Fully Automatic
Primary Battery Harvesting	Current Limited, Fully Automatic

## USER INTERFACE

Display	LCD Panel
Control Keypad	Up, Down, Enter, and Escape buttons

## PHYSICAL PARAMETERS

Size	2.8" H x 3.5" W x 0.6" D inches (7.1cm H x 8.9 L x 1.5 cm D)
Weight	0.3 lbs.
Color	Desert Sand
Operating Temperature	-40 to -60 °C



## VPM-402 features and functions

- ▲ Man-worn data hub with full SMBus and USB connectivity for set-and-forget, accurate state-of-charge indication, and battery health monitoring and reporting
- ▲ USB ports permit seamless data transfer from tablet, GPS, radio and video downlink systems, including; PRC-148, PRC-154, PRC-152, RF-7800T, RF-3590, SIR 2.5 Tactical Rover, Android Tablets, etc.
- ▲ Automatically converts power from any source to any device through the same cable used for data – reducing weight, complexity and excess cabling
- ▲ Totally weatherproof and able to function fully submerged



P T X

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